

## ABSTRACT

A solenoid has a cylindrical excitation coil and a plunger movable in the excitation coil and generates electromagnetic force to move the plunger when an electric current is supplied to the excitation coil. A cover for closing a side of a plunger compartment accommodating the plunger is provided with upper and lower through-holes communicatively extending through the cover from the outside of the solenoid to the plunger compartment. The uppermost part of the upper through-hole is above or level with the uppermost part of the plunger compartment. The lowermost part of the lower through-hole is below or level with the lowermost part of the plunger compartment.